

Mon Oo Yee

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EMPLOYMENT

Post-doctoral Scholar (Dec 2019 – Present)

Department of Ecology, Lawrence Berkeley National Laboratory, U.S.A.

Project “**ENIGMA : Ecosystems and Networks Integrated with Genes and Molecular Assemblies**”

Project “**m-CAFEs : Microbial Community Analysis & Functional Evaluation**”

Phd Candidate (Sept 2015 – 2019)

Department of Biology, University of Southern Denmark, Denmark

Project “**Investigation of Extracellular Electron Transfer to Methanogens**”

PI: A/Prof. Amelia-Elena Rotaru, Prof. Bo Thamdrup

Research Assistant (Oct 2014 – Aug 2015)

Singapore Centre for Environmental Life Sciences Engineering, Singapore

Project “**Anti-biofouling Treatments to Wastewater Filtration Membranes**”

PI: A/Prof. Scott Rice, Dr. Hyun-Suk Oh

Technical Development Officer (Apr 2010 – May 2012)

Ngee Ann Polytechnic, Singapore

Project “**Development of ELISA-based Diagnostic Kit for Common Fish Viruses in Singapore**”

PI: Dr. Timothy Tan Hoe Peng

EDUCATION

Sept 2015 – Dec 2019

Ph.D. (Electromicrobiology), University of Southern Denmark, Denmark

June 2012 – June 2014

B.Sc. (Microbiology), University of New South Wales, Australia

Mar 2007 – Mar 2010

Diploma (Mol. Biotech), Ngee Ann Polytechnic, Singapore

PATENTS

Enhanced Biogas Production (2013) Beckmann, S., **Yee, M.O.**, Lee, M. & Manefield, M.

NewSouth Innovations Pty Ltd. (AU2014202663 (A1) 2014-12-04).

PUBLICATION LIST

- 1. Extracellular electron uptake in *Methanosarcinales* is independent of intrinsic multiheme c-type cytochromes**
Yee, M. O. & Rotaru, A-E. (2020) Scientific Reports, 10(1), 1-12. (Impact factor: 4.122)
- 2. Cultivating electroactive microbes – from field to bench**
Yee, M. O., Deutzmann, J., Spormann, A. & Rotaru, A-E. (2020) Nanotechnology, 31(17). (Impact factor: 3.399)
- 3. Extracellular electron uptake by two *Methanosarcina* species**
Yee, M. O., Snoeyenbos-West, O., Thamdrup, B., Ottosen, L. D. M. & Rotaru, A-E. (2019) Frontiers in Energy Research. 7, 29. (Impact factor: N.A.)

4. Biofouling control in reverse osmosis by nitric oxide treatment and its impact on the bacterial community

Oh, H., Constanciasa, F., Ramasamy, C., Tang, P.Y., Yee, M.O., Fane, A.G., McDougald, D. & Rice, S.A. (2018) Journal of Membrane Science, 550. (Impact factor: 7.015)

5. Novel phenazine crystals enable direct electron transfer to methanogens in anaerobic digestion by redox potential modulation

Beckmann, S., Welte, C., Li, X., Yee, M.O., Kroeninger, L., Heo, Y., Zhang, M., Ribeiro, D., Lee, M., Bhadbhade, M., Marjo, C.E., Seidel, J., Deppenmeier, U. & Manefield, M. (2016) Energy & Environmental Science. 9, 2. (Impact factor: 33.25)

INTERNATIONAL RESEARCH STAYS

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|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Jun 2017 - Jul 2017 | Radboud University, The Netherlands Lab of Prof. Mike Jetten, A/Prof Cornelia Welte SIAM Talent Grant program to set up methane oxidizing electrochemical reactors and learn mutagenesis in methanogens |
| Mar 2009 - Jun 2009 | Jiangnan University, China Lab of Prof. Yan Xu, Dr. Zhao Ming-Xing Internship project on hydrogen production from kitchen wastes |

GRANTS AND AWARDS

(2017) Received SIAM (Soehngen Institute of Anaerobic Microbiology) Talent Grant
(2010) GlaxoSmithKline gold medal for most outstanding diploma student

OTHER ACTIVITIES

Freelance illustrator for Scientific publications (2018 – Present)

- The Crispr Journal (ISSN: 2573-1599)
- Genetic Engineering and Biotechnology News (ISSN: 1935-472X)
- Clinical-Omics Magazine (ISSN: 2334-1351)

Illustrator for Children's Books on Microbiology, Microverse (2014-2016)
Portfolio website (www.aungye.com)

REFERENCES

Dr. Romy Chakraborty

Relation: Supervisor (Postdoc)
Department of Ecology, Earth and
Environmental Sciences Area
Lawrence Berkeley National
Laboratory,
Berkeley, CA 94720, USA
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A/Prof. Amelia-Elena Rotaru

Relation: Supervisor (PhD)
Department of Biology, Nordcee
University of Southern Denmark
5230 Odense M, Denmark
arotaru@biology.sdu.dk
<http://rotarulab.com/>

Dr. Sabrina Beckmann

Relation: Co-supervisor (Bachelor
thesis)
College of Earth, Ocean, &
Environment
University of Delaware
Newark, DE 19716, USA
beckmann@udel.edu

A/Prof. Scott Rice

Relation: Supervisor (Former
Employer)
Singapore Centre on Environmental
Life Sciences and Engineering
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